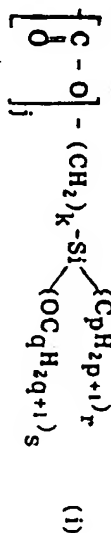


<p>90-295017/39 A81 G03 (A18) KAPA 08.02.89          KANSAI PAINT KK          08.02.89-JP-028850 (17.08.90) C09-07/02          Water repellent pressure sensitive adhesive sheet - includes water repellent coating layer config. polymer of fluoroalkyl gp. config. (meth)acrylate monomer and opt. silicone          C90-127464</p>	<p>A(4-E10D, 12-A1, 12-A5) G(2-A5D, 3-B4)          n = Integer of 1-20,          R<sub>3</sub> = gp. of formula (1)</p>
<p>A water repellent pressure sensitive adhesive sheet is a multi-layer sheet comprising (A) a water repellent coating layer, (B) a base sheet layer, (C) a pressure sensitive adhesive layer and (D) a releasing sheet layer, in which (A) comprises (a) polymer comprising fluoroalkyl gp config. (meth)acryl monomer of formula (I), opt.          (b) silicone config. polymerisable unsatd. monomer of formula (II)</p> $\begin{array}{c} \text{R}_1 \text{ O} \\   \parallel \\ \text{CH}_2 = \text{C} - \text{C} - \text{O} - (\text{CH}_2)_1 - \text{Rf} \end{array} \quad (I)$ $\begin{array}{c} \text{R}_2 \\   \\ \text{CH}_2 = \text{C} - \text{R}_3 \end{array} \quad (II)$ <p>R<sub>1</sub>, R<sub>2</sub> = H or methyl;          1 = integer of 1-11;          Rf = C<sub>n</sub>F<sub>2m+1</sub>, or -C<sub>n</sub>F<sub>2nH</sub>,          m = Integer of 1-20,</p>	<p>j = 0 or 1,          k = Integer of 0-5,          q = Integer of 1-20,          r = Integer of 0-2, s = Integer of 1-3, and          r + s = 3, and          (c) particles of ave. dia. of at least 5µm.</p> <p><u>USE/ADVANTAGE</u>          The sheet prevents ice and snow adhesion on objects and involves only sticking the sheet instead of using a troublesome coating operation.</p> <p><u>EXAMPLE</u>          On the other side of a plasticized PVC sheet (B), a pressure sensitive adhesive layer (C) comprising mainly poly-2-ethylhexylacrylate was formed, on which a releasing agent</p> <p style="text-align: right;">J02208382-A+</p>



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layer (D) was formed. On the other side of (B) a primer layer (E) comprising mainly ethylcellulose was formed on which a water repellent layer (A) comprising (a) obtd. by copolymer of 2-perfluorooctylethylmethacrylate, 2-perfluorooctylmethacrylate,  $\gamma$ -methacryloyloxypropyltrimethoxysilane, in hexafluorometaxylene and (c) hydrophobic silica fine powder with other solvent was formed by alrepsaying and drying to obtain the sheet. Contact angle of the surface was 138°. The sheet exhibited good weatherability, water proofness and flexural resistance. (9ppW11HWDwgNo0/0)

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